• RUDRAPRASAD CONSULTANTS

NAME OF WORK: Package2, includes 5 works of Rs.245.00 lakhs

1)Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No:06 Byatarayanapura Sub Division.

2)Improvements to Drains and Asphalting to Roads at Balaji layout Near Railway Gate in Ward No:06 Byatarayanapura Sub Division.

3)Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No: 06 Byatarayanapura Sub Division.

4)Improvements to Drains and Asphalting to Roads at Bharathnagara saw mill Road in Ward No: 06 Byatarayanapura Sub Division.

5) Improvements to Drains and Asphalting to Roads at Shiradi Sai Nagar and Hegadenagar in Ward No:06 Byatarayanapura Sub Division.

SECOND & PART BILL

MEASUREMENT SHEET

SUBMITTED TO B.B.M.P,
BANGALORE

#3, 7th Main Malleswaram, Bangalore – 560003
Telefax: 9180 23444801, Mobile: 91 9972924526 Web: www.arkstructure.com e-mail: rechan6630@yahoo.co.in

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Package2, includes 5 works of Rs.245.00 lakhs 1)Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No:06 Byatarayanapura Sub Division. 2)Improvements to Drains and Asphalting to Roads at Balaji layout Near Railway Gate in Ward No:06 Byatarayanapura Sub Division. 3)Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No: 06 Byatarayanapura Sub Division. 4)Improvements to Drains and Asphalting to Roads at Bharathnagara saw mill Road in Ward No: 06 Byatarayanapura Sub Division. 5) Improvements to Drains and Asphalting to Roads at Shiradi Sai Nagar and Hegadenagar in Ward No:06 Byatarayanapura Sub Division.

PROJECT NAME:- 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No: 06 Byatarayanapura Sub Division

Agency: Sri. G. Venkatesh No. 623/A, 11th main HAL 2nd Stage, Indiranagar, Bangalore- 560 008

Measurements Taken On :

MEASUREMENT SHEET - 2nd and PART BILL

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item No. 01		Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. and as per the directions of the Engineer-in-charge of the work .							
		New CC Drain							
		Balaji Layout (Wajid layout)							
		1st Cross Road							
0	28		Cum	1	28.00	1.10	1.05	32.34	
		SaraiPalya							
		Cross Road							
0	30		Cum	1	30.00	1.10	1.05	34.65	
30	60		Cum	1	30.00	1.10	1.05	34.65	
60	90		Cum	1	30.00	1.10	1.05	34.65	
90	120		Cum	1	30.00	1.10	1.05	34.65	
120	150		Cum	1	30.00	1.10	1.05	34.65	
150	180		Cum	1	30.00	1.10	1.05	34.65	
180	222		Cum	1	42.00	1.10	1.05	48.51	
							TOTAL	288.75	

Contactor

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 2nd and PART BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.03		**Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications and as per the directions of the Engineer-in-charge of the work .**							
		Saraipalya							
		1st Cross Road							
0	15		Cum	1	15.00	5.15	0.20	15.45	
15	30		Cum	1	15.00	5.05	0.20	15.15	
30	45		Cum	1	15.00	5.00	0.20	15.00	
45	60		Cum	1	15.00	5.10	0.20	15.30	
60	74		Cum	1	14.00	5.20	0.20	14.56	
		2nd Cross Road							
0	15		Cum	1	15.00	5.55	0.20	16.65	
15	30		Cum	1	15.00	5.45	0.20	16.35	
30	45		Cum	1	15.00	5.45	0.20	16.35	
45	60		Cum	1	15.00	5.50	0.20	16.50	
60	70		Cum	1	10.00	5.60	0.20	11.20	
		3rd Cross Road							
0	15		Cum	1	15.00	5.45	0.20	16.35	
15	30		Cum	1	15.00	5.50	0.20	16.50	
30	45		Cum	1	15.00	5.55	0.20	16.65	
45	60		Cum	1	15.00	5.40	0.20	16.20	
60	70		Cum	1	10.00	5.25	0.20	10.50	
							TOTAL	**228.71**	

Contactor PMC Assistant Engineer Assistant Executive Engineer

RUDRAPRASAD CONSULTANTS BANGALORE

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

MEASUREMENT SHEET - 2nd and PART BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.14		**Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work .**							
		Saraipalya							
		1st Cross Road							
0	15		Cum	1	15.00	5.15	0.15	11.59	
15	30		Cum	1	15.00	5.05	0.15	11.36	
30	45		Cum	1	15.00	5.00	0.15	11.25	
45	60		Cum	1	15.00	5.10	0.15	11.48	
60	74		Cum	1	14.00	5.20	0.15	10.92	
		2nd Cross Road							
0	15		Cum	1	15.00	5.55	0.15	12.49	
15	30		Cum	1	15.00	5.45	0.15	12.26	
30	45		Cum	1	15.00	5.45	0.15	12.26	
45	60		Cum	1	15.00	5.50	0.15	12.38	
60	70		Cum	1	10.00	5.60	0.15	8.40	
		3rd Cross Road							
0	15		Cum	1	15.00	5.45	0.15	12.26	
15	30		Cum	1	15.00	5.50	0.15	12.38	
30	45		Cum	1	15.00	5.55	0.15	12.49	
45	60		Cum	1	15.00	5.40	0.15	12.15	
60	70		Cum	1	10.00	5.25	0.15	7.88	
		New CC Drain							
		Balaji Layout (Wajid layout)							
		Cross Road							
0	28		Cum	1	28.00	1.10	0.15	4.62	
		SaraiPalya							
		Cross Road							
0	30		Cum	1	30.00	1.10	0.15	4.95	
30	60		Cum	1	30.00	1.10	0.15	4.95	
60	90		Cum	1	30.00	1.10	0.15	4.95	
90	120		Cum	1	30.00	1.10	0.15	4.95	
120	150		Cum	1	30.00	1.10	0.15	4.95	
150	180		Cum	1	30.00	1.10	0.15	4.95	
180	222		Cum	1	42.00	1.10	0.15	6.93	
							TOTAL	**212.78**	

Contactor PMC Assistant Engineer Assistant Executive Engineer

RADRAPRASAD CONSULTANTS BANGALORE

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-24

MEASUREMENT SHEET - 2nd and PART BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.11		Providing and removing centering, shuttering, strutting, propping etc, for columns, pillars, post and strts, square / rectanagular / polygon in plan including cost of all materials, labour complete as per specification. and as per the directions of the							
		Balaji Layout (Wajid layout)							
		Cross Road							
0	28		Sqm	4	28.00		0.75	84.00	
		SaraiPalya							
		Cross Road							
0	30		Sqm	4	30.00		0.75	90.00	
30	60		Sqm	4	30.00		0.75	90.00	
60	90		Sqm	4	30.00		0.75	90.00	
90	120		Sqm	4	30.00		0.75	90.00	
120	150		Sqm	4	30.00		0.75	90.00	
150	180		Sqm	4	30.00		0.75	90.00	
180	222		Sqm	4	42.00		0.75	126.00	
							TOTAL	**750.00**	

Contactor

PMC

Assistant Engineer

Assistant Executive Engineer

S.NO	Description	Nos	BAR DIA	No. Bars	Total No. bars	Length	Total Length	Weight	Total weight
			mm			m	m	kg/m	Kg's
Item no.13		**Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. and as per the directions of the Engineer-in-charge of the work .**							
	Balaji Layout (Wajid layout)								
	Cross Road								
	Main Bars (#12@160 c/c)	1	12	176	176	2.70	475.20	0.887814	421.89
	Distribution(10-#8)	1	8	10	10	28.00	280.00	0.394584	110.48
	Sarai Palya								
	Cross Road								
	Main Bars (#12@160 c/c)	1	12	1404	1404	2.70	3791.14	0.887814	3365.83
	Distribution(10-#8)	1	8	10	10	224.50	2245.00	0.394584	885.84
								TOTAL QTY IN KG'S	**4784.04**
								TOTAL QTY IN TONNE	**4.78**

Contractor

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 2nd and PART BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.12		Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @320kgs, with 20mm and down size graded granite metal course aggregates @0.69cum and fine aggregates @0.460 cum, with super plasticisers @ 3 liters confirming to Is 9103-1999 reafirme-2008 machine mixed, concrete laid in layers not exceeding 15 cms thick vibrated for all works in foundation for footings pedastaals retaining walls return walls (any thickness) including attached pilasters columnspillars posts struts buttresses bed blocks anchor blocks & plinths etc. including cost of all materials labour HOM of machinery curing complete but excluding cost of reinforcement as per specifications.							
		New CC Drain							
		Balaji Layout (Wajid layout)							
		Bottom Raft							
		Cross Road							
0	28		Cum	1	28.00	0.90	0.15	3.78	
		SaraiPalya							
		Cross Road							
0	30		Cum	1	30.00	0.90	0.15	4.05	
30	60		Cum	1	30.00	0.90	0.15	4.05	
60	90		Cum	1	30.00	0.90	0.15	4.05	
90	120		Cum	1	30.00	0.90	0.15	4.05	
120	150		Cum	1	30.00	0.90	0.15	4.05	
150	180		Cum	1	30.00	0.90	0.15	4.05	
180	224.5		Cum	1	44.50	0.90	0.15	6.01	
		Side wall							
		Cross Road							
0	28		Cum	1	28.00	0.15	0.75	3.15	
		SaraiPalya							
		Cross Road							
0	30		Cum	2	30.00	0.15	0.75	6.75	
30	60		Cum	2	30.00	0.15	0.75	6.75	
60	90		Cum	2	30.00	0.15	0.75	6.75	
90	120		Cum	2	30.00	0.15	0.75	6.75	
120	150		Cum	2	30.00	0.15	0.75	6.75	
150	180		Cum	2	30.00	0.15	0.75	6.75	
180	224.5		Cum	2	44.50	0.15	0.75	10.01	
							TOTAL	**87.75**	

Contactor

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 2nd and PART BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.15		**Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. and as per the directions of the Engineer-in-charge of the work .**							
		Saraipalya							
		1st Cross Road							
0	15		Cum	1	15.00	5.15	0.10	7.73	
15	30		Cum	1	15.00	5.05	0.10	7.58	
30	45		Cum	1	15.00	5.00	0.10	7.50	
45	60		Cum	1	15.00	5.10	0.10	7.65	
60	74		Cum	1	14.00	5.20	0.10	7.28	
		2nd Cross Road							
0	15		Cum	1	15.00	5.55	0.10	8.33	
15	30		Cum	1	15.00	5.45	0.10	8.18	
30	45		Cum	1	15.00	5.45	0.10	8.18	
45	60		Cum	1	15.00	5.50	0.10	8.25	
60	70		Cum	1	10.00	5.60	0.10	5.60	
		3rd Cross Road							
0	15		Cum	1	15.00	5.45	0.10	8.18	
15	30		Cum	1	15.00	5.50	0.10	8.25	
30	45		Cum	1	15.00	5.55	0.10	8.33	
45	60		Cum	1	15.00	5.40	0.10	8.10	
60	70		Cum	1	10.00	5.25	0.10	5.25	
							TOTAL	**114.36**	

Contactor PMC Assistant Engineer Assistant Executive Engineer

RUDRAPRASAD CONSULTANTS BANGALORE

MEASUREMENT SHEET - 2nd and PART BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.16		**Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. and as per the directions of the Engineer-in-charge of the work .**							
		Saraipalya							
		1st Cross Road							
0	15		Sqm	1	15.00	5.15		77.25	
15	30		Sqm	1	15.00	5.05		75.75	
30	45		Sqm	1	15.00	5.00		75.00	
45	60		Sqm	1	15.00	5.10		76.50	
60	74		Sqm	1	14.00	5.20		72.80	
		2nd Cross Road							
0	15		Sqm	1	15.00	5.55		83.25	
15	30		Sqm	1	15.00	5.45		81.75	
30	45		Sqm	1	15.00	5.45		81.75	
45	60		Sqm	1	15.00	5.50		82.50	
60	70		Sqm	1	10.00	5.60		56.00	
		3rd Cross Road							
0	15		Sqm	1	15.00	5.45		81.75	
15	30		Sqm	1	15.00	5.50		82.50	
30	45		Sqm	1	15.00	5.55		83.25	
45	60		Sqm	1	15.00	5.40		81.00	
60	70		Sqm	1	10.00	5.25		52.50	
							TOTAL	**1143.55**	

Contactor

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant Executive Engineer